

Panama to Have the Largest Artificial Lake In World, and All American Owned

Will Stretch Far Beyond the Canal Zone on Both Sides and Cover Many Towns and Villages With Area of 167 Square Miles.

WASHINGTON, D. C., Sept. 27.—The most important feature of the isthmian canal is an artificial lake, which will extend two-thirds of the distance from ocean to ocean. Which means, of course that two-thirds of the voyage made by ships through the canal will be over the surface of this lake. The latter, to be known as Gatun lake, will be by far the largest artificial body of water ever known in the world.

Through the middle of the great Gatun dam is cut a gap 1900 feet wide, lined with concrete and called a "spillway." Across it is placed a barrier of concrete, in which there are huge steel gates that may be raised or lowered. By raising these gates at periods of high water (when the Chagres river is in flood), the water can be allowed to escape without flowing over the dam. It is easily understood that by this means the level of the water in the lake can at all times be controlled.

One should clearly understand that the above-mentioned basin in the hills was originally dry land—though a good deal of it was subject to frequent inundation by freshets of the Chagres. Thus the diggers of the Panama canal have incidentally accomplished a very remarkable change in the geography of the region. Now that the lake is filled up, it will never be possible to empty it again. Col Goethals says, because no means have been provided whereby such a thing could be done, but it will be practicable to lower its surface level as much as 18 feet, if desired.

Greater Than Lake Mead.
One of the Pharaohs of the 12th Egyptian dynasty constructed a reservoir, known to this day as Lake Moeris, to regulate the overflow of the Nile. It covered 62 square miles, and was justly considered one of the wonders of the world. But Gatun lake, when it is full, will cover about three times that area (187 square miles), its object being a similar one—namely, to take care of the flood waters of the Chagres and prevent them from doing mischief. It will hold 325,000,000,000 cubic feet of water.

The canal zone is a strip exactly 16 miles wide, extending across the isthmus of Panama. But the lake, when it is full, will extend far beyond the limits of the strip on both sides. In fact, no less than 27 square miles of it will occupy territory hitherto belonging to the Republic of Panama. But provision for this matter was made some time ago by treaty with the Panamanian government, and in March 1912, a proclamation was issued by the president of Panama, declaring that the little republic thenceforth would relinquish to the United States all authority over the area covered by the lake and extending beyond the limiting lines of the zone.

The basin, being surrounded on all sides by lofty hills, man spurs of the latter, still submerged, will extend out into the lake, forming peninsulas. And in the same way will be formed numerous islands. There will be about 30 of these islands off the canal, and 20 more east of it, outside the strip. Over all of them the government of the United States has absolute and exclusive jurisdiction.

Will Have 1000 Miles of Shores.
Naturally, under the circumstances, the outline of this immense artificial body of water will be exceedingly irregular, stretching in a multitude of arms far up into the land. Its shores in total length will measure over 1000 miles. There will be plenty of room on its surface for all the navies of the world to maneuver, and it is not unlikely that in time of war our own fighting ships might seek refuge there to refit. One effect of the fresh water of the canal, by the way, will be to kill gammarus. Col. Goethals says that barnacles dropping from the ships that pass through the ditch will accumulate to such an extent in a few years on the bottom of the canal that they will have to be dredged out.

Water from the lake, passing through the spillway, will be used to operate an enormously powerful hydro-electric plant, which will furnish electricity to lift and lower the steel gates, to operate the machinery of the locks, to furnish power for great machine shops, to illuminate the canal and the locks, and, later on, to run the trains of the Panama railroad. To insure uninterrupted service, all of the equipment

of the electrical plant will be in duplicate.

Blots Out Historic Trade Route.
The filling up of the lake will have the incidental effect of blotting out one of the world's historic trade routes. It has involved the destruction of a number of little towns which have a distinct place in American history, because they were known to European civilization many years before Jamestown was settled or Massachusetts Bay became an English colony. The names of some of them appear on a map published with Esquemeling's "Narrative of the Buccaneers" in 1674. As early as 1530 the Spanish ships sailed down the coast from Nombre de Dios and entered the Chagres, whence their goods were transferred to canoes and taken up the river 36 miles to a point near where the lake is to be.

Will Destroy Many Towns.
The little towns, some of them hardly more than jungle hamlets, have always subsisted largely by the trade they drove with wayfarers. Most of the houses were primitive jungle homes of palm thatch, raised a few feet above the ground by bamboo poles. Others were of ordinary lumber, with corrugated iron roofs—both the iron and the lumber having been pilfered from storehouses or isolated buildings formerly belonging to the French canal diggers. Here and there, however, were trim little cottages, some dating from the period of French occupancy, and others of later American construction.

Most notable of the towns in the lake basin was the ancient village of Gatun, on the river flats. In the early days of the canal journey up the Chagres, where boat loads of travelers used to pause for refreshments, and where eggs sold at 25 cents apiece, and a hammock was rented for \$3 a night. When the Americans arrived, in 1901, Gatun was the center of a considerable river traffic, shipping once a week by rail from seven to nine carloads of bananas. On

GERMAN MILITARY LAW MAY BE CHANGED

Severity of Penalty for Violations of Discipline Works Hardship on Reservists.

Berlin, Germany, Sept. 27.—The severity of German military law is illustrated by the renegeing of a case in which, at Erfurt last June, seven reservists, of whom six were fathers of families, were sentenced to long periods of penal servitude and simple imprisonment for drunken acts committed during the annual two days they are under military law. After reporting themselves on one of the days referred to, the accused got drunk, and abused and resisted a couple ofgendarmes who sought to arrest them for "military uproar," an offense for which the minimum penalty under German military law is five years' penal servitude. The accused pleaded drunkenness, but the courtmartial held the plea to be no ground for extenuating circumstances. On judgment being pronounced the accused were so stunned that the sentences had to be repeated to them before they could grasp their meaning and magnitude.

May Reduce Sentence.
Subsequently the case was taken up in the Reichstag, which by a large majority, recommended an amendment in the military law admitting the force of pleas of mitigating circumstances for such offenses, and the federal council having adopted the Reichstag's proposal, it has thus become applicable to the case in question. The superior tribunal today was chiefly occupied in taking evidence as to the alleged existence and extent of the drunkenness when the arrests were made. The court has power, under the amended law, to reduce the sentences to six months' imprisonment.

Little Ella heard the cook say she was going to have green peas for dinner, so she went to the kitchen to offer her services in preparing them. While deeply engaged in this fascinating occupation, her brother came and wanted her to go and play with him. "I can't go now," said Ella, "cause I'm helping cook inhibition the peas."

—By—
Rene Bache

Composes as Death Comes

Handel, Ungainly and a Glutton, Takes Time From the Resper to Produce Masterpieces.

GEORGE FREDERICK HANDEL was the son of a surgeon in Halle, Saxony, where he was born in 1685. None of the family were musical and so full of hatred for music was the father that the boy, who was intended for the profession of the law, got an old spinnet and practiced on it secretly in a hayloft. The father even forbade the boy to go to houses where music might be learned and did not allow him to finish school lest he might imbibe a musical taste.

On one occasion, going with his father to visit a relative in the service of the duke of Weissenfels, Handel was allowed to climb up surreptitiously on the organ stool and play away to his heart's content. The duke, struck by his playing, argued with his father, so that not only were all restrictions removed, but Handel was allowed to secure a teacher. During this time the boy had turned to the study of the law in the university of Halle, but he soon turned his whole attention to music, studying in Berlin and Hamburg. He soon entered the service of the elector of Hannover, afterwards George I of England.

Quits Native Land.
Under the patronage of queen Anne of England, he was commissioned to compose a Te Deum, she allowing him 200 pounds a year to remain in England. This displeased the elector and Handel determined not to return to his native land. When George came to the English throne, the musician was much afraid that the monarch's resentment would undo his career, but the king finally became reconciled to Handel and he continued to live in England until the end, composing those sublime operas and grand oratorios which have immortalized his name.

Handel was a large, corpulent man, very awkward, with rough manners and violent temper. From his earliest years he had asthma, which intensified as he grew older. He took no exercise and became bloated. Drapery set in and his great mountain of flesh became a burden to him. He aggravated his condition by eating and drinking just what he pleased. He was a perfect glutton, indulging in the most costly wines and gourmandizing on the best foods. Eight years before his death his sight began to fail and he became totally blind. He was a pitiful sight with his big body, sightless eyes, a burden to himself and a pain to those who had to care for him. He was never married, but he continued to work to the end, although suffering intensely. He was never greater than when, ranked by many of the approach of death, and struggling with distress and suffering, he sat down and composed such masterpieces as "Jephthah" and "The Triumph of Time and Truth." His other masterpieces are "The Messiah," "Esther," "Rinaldo," "Deborah" and "Joseph and His Brethren."

Has Never Been Surpassed.
In boldness and strength of style, in the combination of vigor, spirit and invention, in instrumental composition he has never been surpassed. His choruses have a grandeur and sublimity which have never been equaled. To the last he played the organ, sometimes from memory, but usually extemporizing. One of his contemporaries,

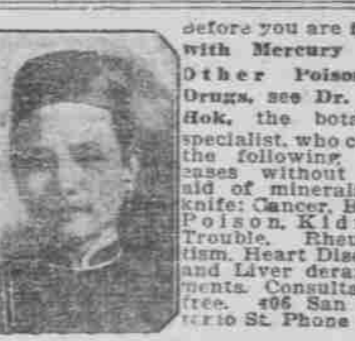
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referring to his playing and his blindness, wrote: "To see him led to the organ at upward of 70 years of age and then conducted toward the audience to make his accustomed obeisance, was a sight so truly affecting and deplorable to persons of sensibility, as greatly to diminish their pleasure in hearing his performance. Handel died on Good Friday, April 13, 1759, and was buried in the poets' corner, Westminster abbey."

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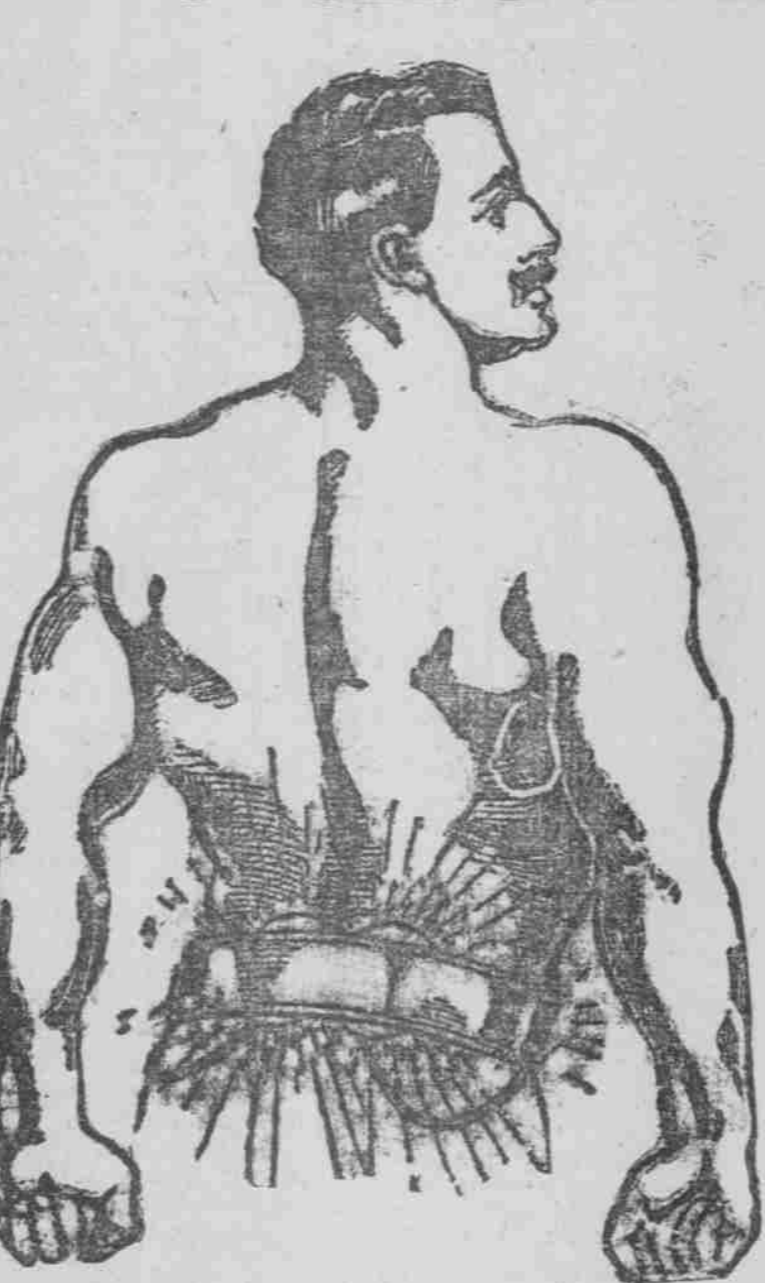


GEORGE F. BAKER.

New York, Sept. 28.—The recent statement by Dr. Frank J. Warner, statistical expert retained by the trainmen, while testifying before the board of arbitration that is attempting to bring about a peaceful settlement of the conductors and trainmen of the 32 eastern railroads and managers, to the effect that 16 men hold nine large railway systems and all of their sub-

sidary companies in uniformity of action and serve as a means of consolidating policies among them is not being denied very forcibly in the financial district. According to Warner there are 20 men serving as 171 directors among the different systems. The leader in this respect is George F. Baker, who holds a chair on 15 different directorate boards.

To the Man Who is All In



A man who was not yet 40, but who probably felt like he was 70, dropped into a chair in our office.

"I'm all in; my back aches; I'm trembling all over; I'm afraid of my shadow. I've got no energy for my work. I'd run away from an old friend because I feel as if it would be a task to greet him pleasantly. I can't brace up; and I don't care if I never wake up."

We see such men daily. We hear from them by every mail.

"Drugs—I've taken enough to float a ship. I had to quit because my stomach won't stand any more dosing."

We never met a man who had not tried drugs first. Since they were old enough to swallow they had taken drugs.

Dr. Oliver Wendell Holmes told the Massachusetts Medical Society: "If the whole materia medica were dumped into the bottom of the sea it would be good for mankind, but bad for the fishes."

Drugs won't restore energy. Food makes energy if you digest it. A weak stomach can't digest food. That's what happened to this man, and he was "all in."

Dr. Jacques Loeb, renowned for his discoveries, says: "The basis of animal vitality is electricity."

An old man of 70 who was "all in" thought electricity might do him some good, used Electra-Vita for a few months, and wrote to us: "Although I am over 70, I have returned to my trade as a blacksmith, and I can hold my own with men of 35. I am an old man made young."

The nice thing about Electra-Vita is its simplicity. You put it on when you retire and turn on the current. While you sleep it pumps energy into all your nerves and vitals. Electra-Vita requires no charging in vinegar or other acids. It gets its power from long-lived dry cells.

For the man who is exhausted it is worth its weight in gold. It rejuvenates him.

If you have a pain or an ache, it removes the cause by finding the weak nerve and invigorating it.

You know there is no pain that does not come from some weakness. Electra-Vita invigorates, and that finds the pain and cures it.

A drug will "kill the pain" by destroying the nerve feeling; but that doesn't remove the cause. Electra-Vita cures the cause by giving back the lost strength.

Moral: Don't drug; don't get into the habit. A small dose today calls for a large one tomorrow.

A man who was drunk all night felt so badly in the morning that he got drunk again. His nerves were so upset from over stimulation that he needed more booze to taper off on. Drugs act like that, only worse.

Mr. Dooley says: "A drug is a little pizen that a little more of it would kill ye."

Are you "all in"? Do you feel that your youthful energy is exhausted? Are you full of pains and aches? Are you easily tired, nervous, discouraged, despondent? Is the old cheerful spirit gone?

Be joyous, be happy and light-hearted; feel the exhilaration that comes from nerves full of electric energy, youth and vigor. You can and will if you apply Electra-Vita.

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